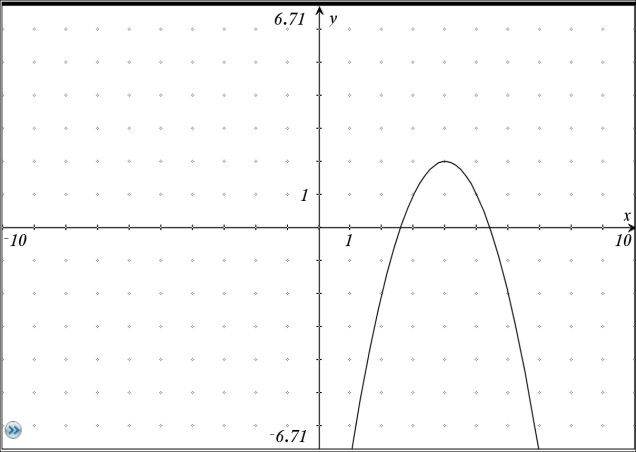
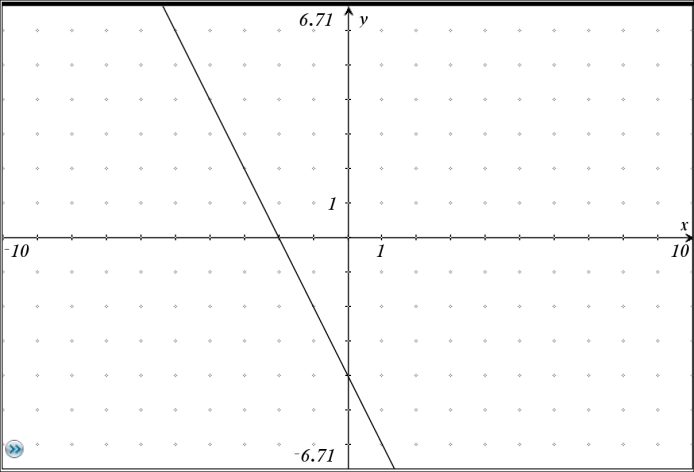
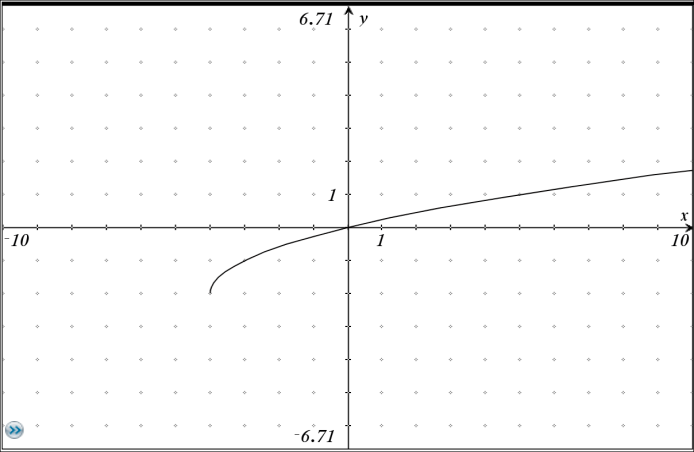
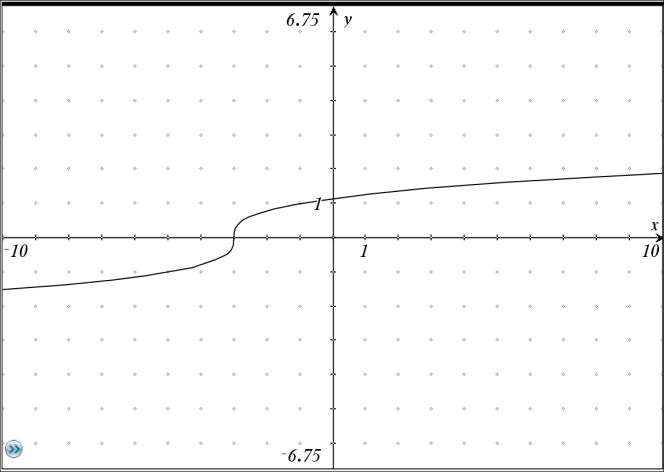
Unit 2 Day 4 WS Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Per \_\_\_\_

Sketch the inverse for each function.

1.  2. 

3.  4. 

Find f-1(x).

5. f(x) =  6. f(x) = x3+5 7. f(x) =  8. f(x) = 9-x2, x ≥ 0

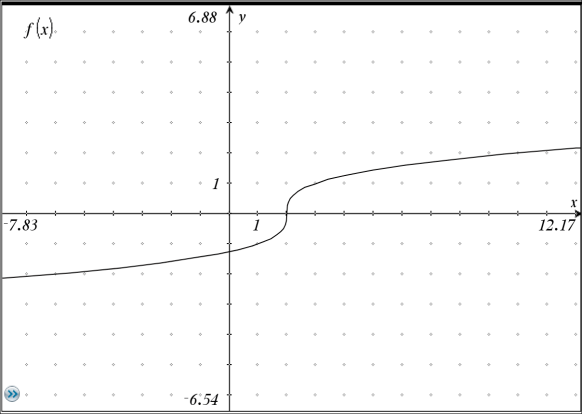
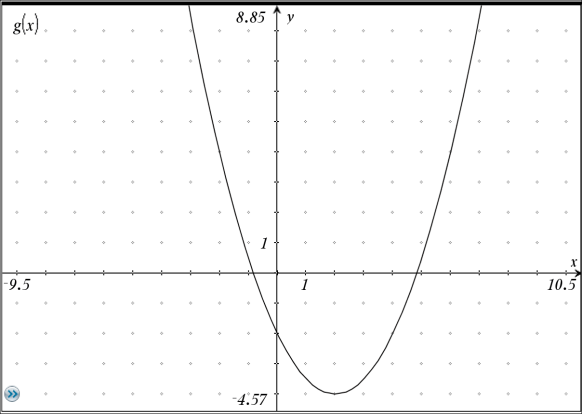
Using a graphing utility, determine if the function is one-to-one.

9.  10.  11.  12. 

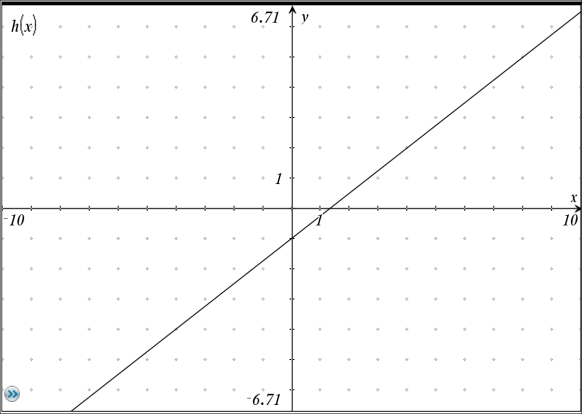
Are the following inverses? You must have work to prove your answer.

13. f(x) =1/2x-5 12. f(x) = 4x3-3 13. f(x) =  14. 

g(x) = 2x + 10 g(x) =  g(x) = x2-10, x0 

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| x | -4 | -3 | -2 | -1 | 0 | 1 | 2 |
| k(x) | 4 | 3 | 2 | 1 | 0 | -1 | -2 |



\*15. (gk)(-2) \*16. f(k(-3)) \*17. g(h(4)) \*18. k(g(2)) \*19. (g+f)(2)

\*20. (h/k)(4) \*21. f-1(-2) \*22. g-1(-2) \*23. h-1(2) \*24. h(h-1(10))

\*25. g(-2)-h(-2)